4 Alignments and Adjustments

4-1 General Alignment Instuction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.
   Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV.
   When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an DC power source with voltage and frequency as specified on
   the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on.
   Make sure that the power cord is disconnected before replacing any parts.
7. To protect aganist shock hazard, use an isolation transform.

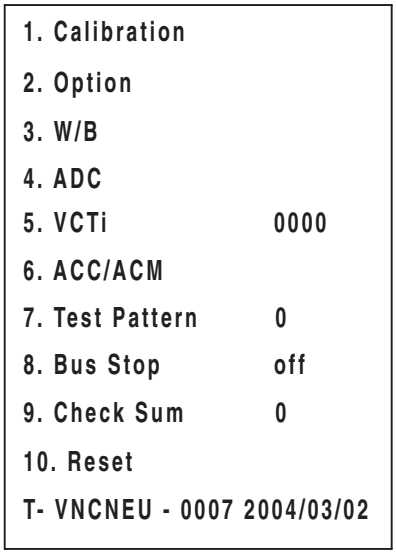
4-2 Factory Mode Adjustments

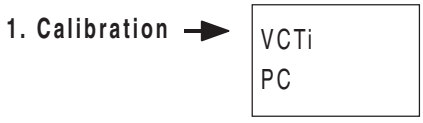
4-2-1 Entering Factory Mode

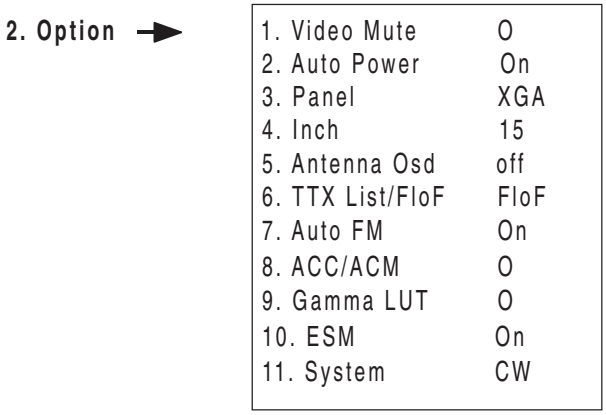
1. To enter “Service Mode” Press the remote -control keys in this sequence :
   - If you do not have Factory remote - control

   - If you have Factory remote - control

4-2-2 Factory Mode Tree







3. W/B(1) →

R level	128
G level	128
B level	128
R gain	127
G gain	127
B gain	127
g Sub Color	0
g Sub Tint	50
Recall	

3. W/B(2) →

Adjustment item		RF [Initial Data]	RF [Adjust Data]	Remark
Red level	ADJ[0~255]	128	128	Blue level 128 FIX
Green level	ADJ[0~255]	128	128	
Blue level	FIX[0~255]	128	128	
Red Gain	FIX[0~255]	128	135	Red Gain 135 FIX
Green Gain	ADJ[0~255]	128	135	
Blue Gain	ADJ[0~255]	128	135	
gSUB Color	FIX[0~255]	0	0	
gSUB Tint	FIX[0~255]	50	50	
Factory Recall	*A/S : Micom Initial Data Write			

Item		Dynamic Cool 1				Remark
MODE		RF[ADJ]	COMPONENT 480i	COMPONENT 480P	PC	* W/B connot be adjusted in COMPONENT &PC * Only x,y axes can be adusted in High & Low Light
Signal Source		External input ABL Pattern [MSPG925LTH]	External input ABL Pattern [MSPG925LTH]	External input ABL Pattern [MSPG925LTH]	External input ABL Pattern [MSPG925LTH]	
W/B Process Adjustment SPEC	High	x=270± 2, y=270± 2	Cannot be adjustment	Cannot be adjustment	Cannot be adjustment	
	Low	x=270± 2, y=270± 2	Cannot be adjustment	Cannot be adjustment	Cannot be adjustment	
W/B SPEC	High	x=270± 10, y=270± 10 , Y=22.0↑ [FL]	x=270± 20, y=270± 20	x=270± 20, y=275± 20	x=250± 30, y=260± 30	
	Low	x=270± 10, y=270± 10 , Y=0.3 0.1 [FL]	x=260± 20, y=260± 20	x=280± 20, y=290± 20	x=250± 30, y=255± 30	

4. ADC →

VCTi		PC	
R offset	**53**	R offset	**66**
G offset	**43**	G offset	**63**
B offset	**47**	B offset	**51**
R gain 0	**125**	R gain 0	**54**
R gain 1	**1**	R gain 1	**1**
G gain 0	**122**	G gain 0	**62**
G gain 1	**1**	G gain 1	**1**
B gain 0	**134**	B gain 0	**66**
B gain 1	**1**	B gain 1	**1**

5. VCTi →

R Drive	192	RF AGC	2
G Drive	192	Vpeaking	6
B Drive	192	CTI Gain	15
Sub Contrast	56	CTI Coring	5
Sub Bright	128	LMIXOFS	2
Sub Sharp	10	PKCF	3
Sub Color	0	AGCADJ1	43
Sub Tint	50	LTI Gain	15
Sub Coring	20		

6. ACC/ ACM →

Y Max D	7	Up Stant	40
Y Scl Thr	64	Low Sn Thr	60
Y Scl A	5	Up Sn Thr	0
Y Scl B	0	Y Min	10
A Ctrl	0	Y Max	255
A Snslp	8	Ym Div Slp	128
T Dixel	12	Fr Age	1
Lower End	80	Fr App	0
Mid Start	30	Esm Ctrl	127
Mid End	100		

7. Test Pattern (Test Pattern of VCTi)

1) VCTi
2) Toshiba
3) Gray Bar
4) Gray
5) Green
6) Color Bar
7) Cross

8. Bus Stop

- Bus stop is used data communication.

9. Chcek Sum

- Display the current check sum size of the MICOM.

10. Reset

- Initializes the data in the MICOM.

11. T-VNCNEU-0007 2004/03/02

- Display the MICOM program version.

4-2-3 White Balance

High	Low
285, 295	285, 295
x, y	x, y

Memo